

## 1) Family number: 3801179 ( EP0174624 A1)

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**Title:** Process for the preparation of lactic-acid esters.**Title:(2):** Verfahren zur Herstellung von Milchsäureestern.**Priority:** DE19843433400 19840912 DE19853560360 19850907[Priority Map](#)

Family:	Publication number	Publication date	Application number	Application date	Links
<a href="#">Family Explorer</a>	DE3433400 A1	19860320	DE19843433400	19840912	<a href="#">[document icon]</a> <a href="#">[document icon]</a> <a href="#">[document icon]</a>
	DE3560360 D1	19870827	DE19853560360	19850907	<a href="#">[document icon]</a> <a href="#">[document icon]</a>
	DK412685 A0	19850911	DK19850004126	19850911	<a href="#">[document icon]</a> <a href="#">[document icon]</a>
	DK412685 A	19860313	DK19850004126	19850911	<a href="#">[document icon]</a> <a href="#">[document icon]</a>
	EP0174624 A1	19860319	EP19850111340	19850907	<a href="#">[document icon]</a> <a href="#">[document icon]</a> <a href="#">[document icon]</a>
	EP0174624 B1	19870722	EP19850111340	19850907	<a href="#">[document icon]</a> <a href="#">[document icon]</a> <a href="#">[document icon]</a>
	ES546878 A1	19860316	ES19850546878	19850911	<a href="#">[document icon]</a> <a href="#">[document icon]</a>
	ES8605463 A1	19860901	ES19850546878	19850911	<a href="#">[document icon]</a> <a href="#">[document icon]</a>
	JP61074588 A2	19860416	JP19850193261	19850903	<a href="#">[document icon]</a> <a href="#">[document icon]</a>

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(std):**Designated states:** BE CH DE FR GB IT LI NL **International class (IPC 8):** C07C59/08 C07C67/00 C07C67/08 C07C69/68 C12P7/62 (Advanced/Invention);**International class (IPC 1-7):** C07C59/00 C07C67/00 C07C69/00 C12P7/62 (Core/Invention)**International class (IPC 1-7):** C07C67/00 C07C67/08 C07C69/68 C12P7/62**European class:** 124BD121X2202X2+69/66 C07C59/08**European class:** 124BD121X2202X2+69/66 C07C59/08**Cited documents:** US2390140, US1695449, US1668806, DE3222837,**Abstract:**

Source: EP0174624A1 1. A process for the preparation of an optically pure alkyl D- or L-lactate by reaction of calcium lactate, prepared by fermentation, with an alcohol in the presence of a strong acid, wherein the crude fermentation mixture is filtered while hot, the calcium lactate is isolated as a solid from the filtrate by spray drying and is reacted with an alcohol in the presence of an acid which forms a readily water-soluble calcium salt, the water present in the reaction mixture or formed during the esterification is separated off by azeotropic distillation with the aid of an entraining agent, and the lactic acid ester is isolated from the reaction mixture in a conventional manner.